

**IN THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

- 1           1.       (original) A gateway for mobile access, comprising:  
2           a foreign agent that receives user profile data and session state data from a home  
3 authentication, authorization and accounting (AAA) system of a mobile node;  
4           at least one dynamic packet filter that performs multi-layer filtering based on the  
5 user profile data;  
6           wherein the foreign agent transfers a session from a first network to a second  
7 network without session interruption, using the session state data, when the mobile node  
8 moves from the first network to the second network, and  
9           the foreign agent uses the dynamic packet filter to permit Internet access by the  
10 mobile node without passing Internet data requested by the mobile node through a  
11 network in which the home AAA system is located.
- 1           2.       (original) The gateway of claim 1, further comprising a MAC-address-  
2 based filter which blocks packets except for authentication packets that are used to  
3 authenticate mobile nodes.
- 1           3.       (original) The gateway of claim 1, wherein the dynamic packet filter  
2 performs network layer filtering and one of the group consisting of transport layer  
3 filtering and application layer filtering.
- 1           4.       (original) The gateway of claim 1, further comprising a non-volatile  
2 storage device in which the user profile data are stored.
- 1           5.       (original) The gateway of claim 1, wherein the non-volatile storage device  
2 has a database that stores state information for each active user session.

1           6.       (original) The gateway of claim 1, wherein the gateway is coupled to at  
2 least one access point, and the gateway transmits from a AAA server in the gateway to  
3 the access point an identification of whether a mobile node in communication with the  
4 access point is successfully authenticated by the AAA server.

1           7.       (original) The gateway of claim 1, wherein the gateway exchanges AAA  
2 data with the home AAA system of the mobile node by way of the Internet, and the  
3 gateway provides Internet access to the mobile node without passing Internet data  
4 requested by the mobile node through the network of the home AAA system.

1           8.       (original) The gateway of claim 7, wherein the gateway relays remote  
2 authentication dial-in user service packets to the home AAA server.

1           9.       (original) The gateway of claim 1, wherein the gateway has a foreign  
2 agent that communicates with the home AAA system of the mobile node, and the foreign  
3 agent is capable of operating in a relay mode, in which the foreign agent forwards  
4 packets to the home AAA of the mobile IP node for authentication, or in a standalone  
5 mode, in which authentication computations for the simple IP mobile node are performed  
6 in the gateway.

1           10.      (original) The gateway of claim 1, the user profile data include per-user  
2 policies dynamically obtained from the home AAA server of the mobile node and the  
3 gateway further the dynamic packet filter is included in a firewall that uses packet  
4 filtering rules that depend on the per-user policies.

1           11.      (original) The gateway of claim 10, wherein the firewall includes rules  
2 that check a media access control address associated with each received packet.

1           12.      (original) The gateway of claim 1, further comprising an 802.11 access  
2 point contained within or attached to a housing of the gateway.

1           13.     (original) The gateway of claim 1, further comprising a wireless modem  
2     contained within or attached to a housing of the gateway.

1           14.     (original) The gateway of claim 1, further comprising:  
2     an 802.11 access point contained within or attached to a housing of the gateway;  
3     and  
4     a wireless modem contained within or attached to a housing of the gateway.

1           15.     (original) A gateway for mobile access, comprising:  
2     a foreign agent that receives user profile data from a home authentication,  
3     authorization and accounting (AAA) system of a client, when the client establishes a  
4     session with the gateway;  
5     a dynamic packet filter that performs multi-layer filtering based on the user  
6     profile data;  
7     an access point contained within or attached to a housing of the gateway, for  
8     communication between the gateway and the client; and  
9     a wireless modem contained within or attached to a housing of the gateway,  
10    wherein the gateway is mobile, and the modem permits wireless communication between  
11    the gateway and a wireless network.

1           16     (original). The gateway of claim 15, wherein the gateway provides  
2     Internet access to the client without passing Internet data requested by the client through  
3     a network containing the home AAA system of the client.

1           17.     (previously presented) The gateway of claim 15, wherein the foreign agent  
2     is capable of obtaining a new IP address when the gateway moves from a first network to  
3     a second network.

1           18.     (original) The gateway of claim 16, wherein, the foreign agent is capable  
2     of advertising the new IP address to the client.

1           19.     (original) The gateway of claim 15, wherein the dynamic packet filter  
2 performs network layer filtering and one of the group consisting of transport layer  
3 filtering and application layer filtering.

1           20.     (original) The gateway of claim 15, further comprising a non-volatile  
2 storage device that stores the session state data, and means for transmitting the stored  
3 session state data to the client if the client loses a connection with the gateway and  
4 resumes the connection with the gateway.

1           21.     (canceled)

1           22.     (canceled)

1           23.     (canceled)

1           24.     (canceled)

1           25.     (canceled)

1           26.     (canceled)

1           27.     (canceled)

1           28.     (canceled)

1           29.     (original) A computer readable medium encoded with computer program  
2 code, wherein, when the code is executed by a processor, the processor performs a  
3 method for controlling mobile access, comprising the steps of:

4           filtering incoming packets based on a media access control address of each  
5 packet;

6           obtaining user profile data of a mobile IP node from a home authentication,  
7 authorization and accounting (AAA) server of a mobile IP node, to determine whether  
8 the mobile IP node is registered to access a network by way of a gateway;  
9           performing multi-layer filtering based on the user profile data;  
10          transferring a session from a first network to a second network in which the  
11 mobile IP node is located without session interruption when the mobile node moves to  
12 the second network; and  
13          providing Internet access to the mobile IP node without passing Internet data  
14 requested by the mobile IP node through a network in which the home AAA server is  
15 located.

1           30.   (canceled)